ROBERT H. PETERSON CO.

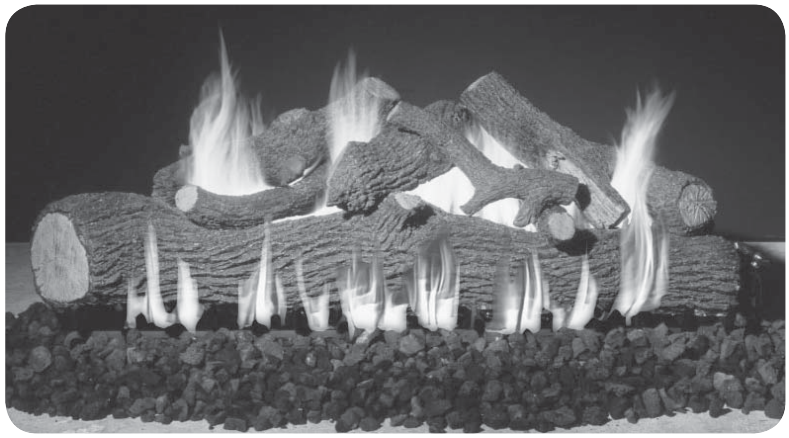
Real Fyre®

Hand-Crafted Gas Logs Since 1949

Instructions

Models:

MPEC-2-24
MPEC-2-30
MPEC-2-36
MPEC-2-48
MPEC-2-60



MANUALLY LIT BURNER SYSTEMS

EPIC BURNER SEE-THRU GAS LOG SET

⚠ WARNING

If the information in this manual is not followed exactly, a fire or explosion may result, causing property damage, personal injury, or loss of life.

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

WHAT TO DO IF YOU SMELL GAS:

- Open a window.
- Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone in the building.
- Immediately call the gas supplier from a neighbor's phone and follow the gas supplier's instructions.
- If you cannot reach the gas supplier, call the fire department.

Installation and service must be performed by an NFI Certified or other qualified professional installer, service agency, or the gas supplier.

INSTALLER & CONSUMER:
These instructions MUST be retained with this appliance.

IMPORTANT: READ THESE INSTRUCTIONS CAREFULLY BEFORE STARTING INSTALLATION OF YOUR LOG SET

The Peterson Real-Fyre® gas log set is to be installed only in a solid-fuel burning fireplace with a working flue constructed of noncombustible material. Solid-fuels shall not be burned in a fireplace where this gas log set is installed. The installation, including provisions for combustion, ventilation air, and required minimum permanent vent opening, must conform with the *National Fuel Gas Code (ANSI Z223.1/NFPA 54)* and applicable local building codes. In Canada, the installation must conform with the *Natural Gas and Propane Storage and Handling Installation Code (CSA-B149.1).* A damper clamp is included to maintain the minimum permanent vent opening and to prevent full closure of the damper blade. **The chimney damper should be fully opened when burning the log set. The log set is designed to burn with yellow flames; thus adequate ventilation is absolutely necessary.**

NATIONAL FIREPLACE INSTITUTE NFI CERTIFIED www.nficertified.org

We recommend that our gas hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as NFI Gas Specialists.

Important: For safe operation and proper performance of this product and to comply with certification, listings, and building code acceptances, use ONLY Peterson Real-Fyre® controls, parts, and accessories that have been specifically listed or certified for use with this burner system. Use of other controls, parts, or accessories is prohibited and will void all warranties, certifications, listings, and building code approvals, and may cause property damage, personal injury, and loss of life.

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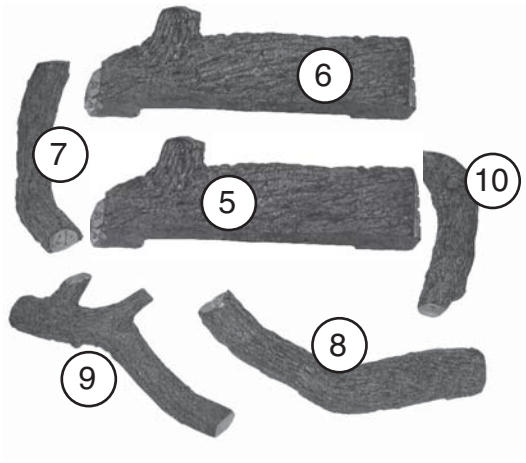
Parts List (24" - 30" models)

Before beginning installation, be sure the gas log set is complete by comparing its contents with this Parts List. Parts may differ depending upon the size of the set purchased. Be sure you know the model number and size of your set when ordering replacement or optional parts and accessories.

24" models

Item No.	Part No.	Description
1.	EC-2-24	Burner assembly
2.	CK-5-24SP	Connector kit
3.	DC-1	Damper clamp
4.	OCC-10	Lava Rock (qty of 3)
5.	MPL-24BF	Mammoth Pine front bottom log 24"
6.	MPL-24BF	Mammoth Pine front bottom log 24"
7.	MPL-15T	Mammoth Pine top log 15"
8.	MPL-20T	Mammoth Pine top log 20"
9.	MPL-17T	Mammoth Pine top log 17"
10.	BL-13T	Mammoth Pine top log 13"

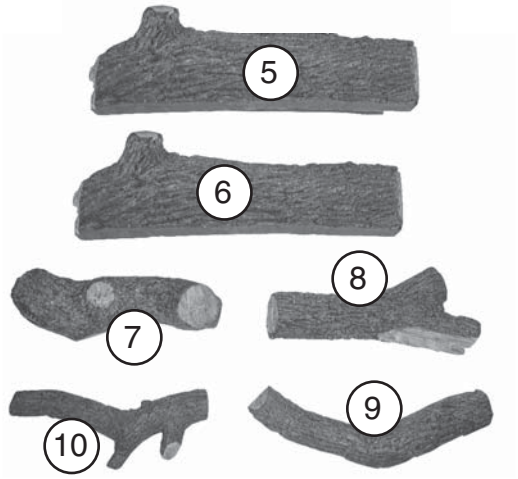


Photos not to scale.

Contact your local Real-Fyre® dealer for replacement parts and accessories.

30" models

Item No.	Part No.	Description
1.	EC-2-30	Burner assembly
2.	CK-5-24SP	Connector kit
3.	DC-1	Damper clamp
4.	OCC-10	Lava Rock (qty of 4)
5.	MPL-30BF	Mammoth Pine front bottom log 30"
6.	MPL-30BF	Mammoth Pine front bottom log 30"
7.	MPL-18T	Mammoth Pine top log 18"
8.	MPL-18TY	Mammoth Pine top log 18"
9.	MPL-20T	Mammoth Pine top log 20"
10.	MPL-17T	Mammoth Pine top log 17"

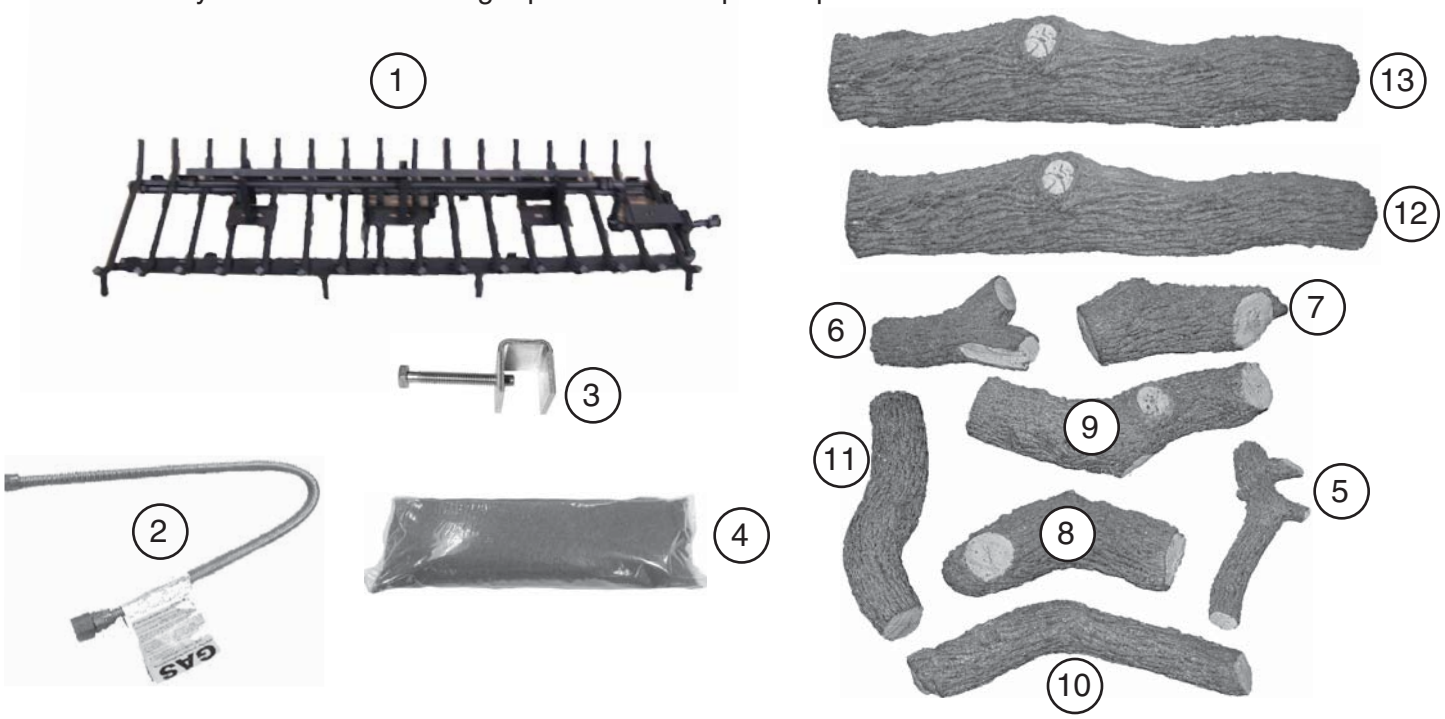


Photos not to scale.

Contact your local Real-Fyre® dealer for replacement parts and accessories.

Parts List (36" - 60" models)

Before beginning installation, be sure the gas log set is complete by comparing its contents with this Parts List. Parts may differ depending upon the size of the set purchased. Be sure you know the model number and size of your set when ordering replacement or optional parts and accessories.



Item No.	Part No.	Description	60	48	36
1.	EC-2-***60***	Valve, Pilot, Burner assembly	x	x	x
2.	CK-5-24SP	Connector kit		x	x
or	CK-5-18SP	Connector Kit	x		
3.	DC-1	Damper clamp	x	x	x
4.	OCC-10	Lava Rock (see right for qty)	6	5	4
5.	MPL-17T	Mammoth Pine top log 17"	x	x	x
6.	MPL-18TY	Mammoth Pine top 'Y' log 18"	x	x	x
7.	MPL-18T	Mammoth Pine top log 18"	x	x	
8.	MPL-19T	Mammoth Pine top log 19"	x	x	
9.	MPL-20T	Mammoth Pine top log 20"	x	x	
10.	MPL-21T	Mammoth Pine top log 21"	x		x
11.	MPL-24T	Mammoth Pine top log 24"	x	x	x
12.	MPL-***36***BF	Mammoth Pine front bottom log ***36***"			x
or	MPL-***48***BF	Mammoth Pine front bottom log ***48***"		x	
or	MPL-***60***BF	Mammoth Pine front bottom log ***60***"	x		
13.	MPL-***36***BF	Mammoth Pine front bottom log ***36***"			x
or	MPL-***48***BF	Mammoth Pine front bottom log ***48***"		x	
or	MPL-***60***BF	Mammoth Pine front bottom log ***60***"	x		

MP-60 shown.

Logs 8-11 are not included with all sets.

Photos not to scale.

Contact your local Real-Fyre® dealer for replacement parts and accessories.

Note: Values in ***bold Italics*** change with burner size and model log set.

Important Pre-installation Information

Check to be sure the fireplace meets venting and construction requirements for the installation of the Real-Fyre® gas log set (see FIREPLACE REQUIREMENTS section, below).

This burner may only be connected to natural gas.

Be sure the gas log set is properly sized for the fireplace. Improper sizing may negatively impact the proper drafting of the fireplace. Additionally, too large a log set will adversely affect the burn and hamper the proper operation of the control system. Fig. 5-1 illustrates the critical dimensions of the firebox.

This gas log set must be installed by an NFI Certified or other qualified professional installer. The installation, including provisions for combustion and ventilation air, must conform with local codes, or, in the absence of local codes, with the latest edition of the *National Fuel Gas Code, ANSI Z223-1,* and *NFPA54.*

Keep the appliance area clear and free from combustible materials, gasoline, and other flammable vapors and liquids.

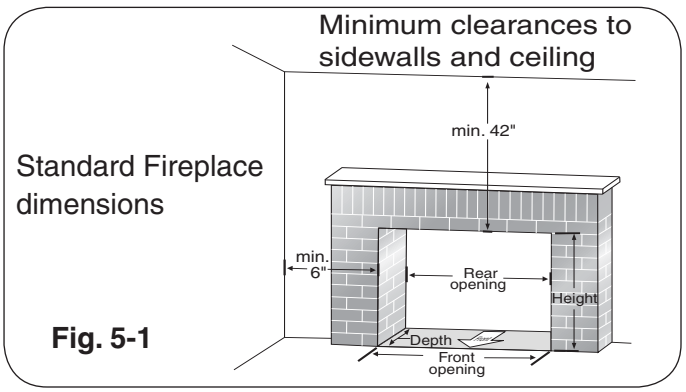


Fig. 5-1

Note: It is recommended that complete firebox dimensions be obtained to ensure proper sizing.

Model no.	Min. Fireplace Size			BTU* (x 1000)	Orifice drill size
	Width	Depth	Height		Nat.
MPEC-2-24-10	34"	24"	26"	90	28/48
MPEC-2-30-10	40"	24"	30"	110	19/41
MPEC-2-36-10	48"	30"	36"	190	13/33
MPEC-2-48-10	60"	30"	36"	215	2/29
MPEC-2-60-10	72"	30"	36"	260	none

*Nominal BTU based on gas inlet pressure. Nominal gas inlet pressure for natural gas is 5" W.C..

Important: To comply with building code acceptances, and for safe operation and proper performance of this log set, use ONLY Peterson Real-Fyre® parts and accessories. Use of other controls, parts, and accessories which are not designed for use with Real-Fyre® gas log sets is prohibited and will void all warranties, certifications, listings, and building code approvals, and may cause property damage, personal injury, or loss of life.

Fireplace Requirements

The Real-Fyre® gas log is to be installed only in a fully vented, fireplace with an open damper. The chimney must be free of any obstructions. The fireplace must be designed and approved to burn wood. The fireplace flue must be at least 8" at its smallest dimension.

The fireplace must have a gas supply line that has been installed by a qualified technician in accordance with all local codes. The gas supply line must be ½" minimum interior diameter. If the gas line to the fireplace is longer than 5', a larger diameter line may be necessary.

Be sure to clean the fireplace floor of any ashes or other foreign materials. It is recommended that the fireplace and chimney be inspected by a chimney sweep or other qualified person before you install the Real-Fyre® gas log set.

Required Gas Pressure: The minimum inlet gas supply pressure for the purpose of input adjustment is 5" of water column (w.c.) for natural gas. The maximum inlet gas supply pressure is 10.5" w.c. for natural gas.

Testing the Gas Supply System: The gas log set and its individual shut-off valve must be disconnected from the gas supply piping system while performing any tests of the piping system at pressures in excess of ½ psig. The gas log set must be isolated from the gas supply piping system by closing its individual manual shut-off valve during any pressure testing of the gas supply piping system at test pressures equal to or less than ½ psig. This is accomplished by closing the gas supply line valve required by NFPA 54. A fireplace screen must be in place when the appliance is in operation and, unless other provisions are provided, the screen shall have an opening(s) for introduction of combustion air. **When glass fireplace doors are used, operate the gas log set with the doors open.**

Minimum Free Opening Area of Chimney Damper

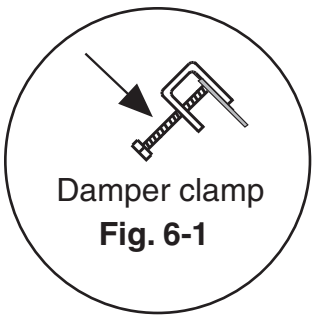
Minimum Free Opening Area of Chimney Damper for Venting										
	For Factory Built Fireplaces Log Set Sizes					For Masonry Built Fireplaces Log Set Sizes				
Chimney Height	**24"**	**30"**	**36"**	**48"**	**60"**	**24"**	**30"**	**36"**	**48"**	**60"**
15'	57 sq. in.	63 sq. in.	119 sq. in.	135 sq. in.	163 sq. in.	61 sq. in.	67 sq. in.	123 sq. in.	139 sq. in.	167 sq. in.
20'	51 sq. in.	57 sq. in.	107 sq. in.	121 sq. in.	147 sq. in.	55 sq. in.	61 sq. in.	111 sq. in.	125 sq. in.	151 sq. in.
25'	48 sq. in.	54 sq. in.	102 sq. in.	115 sq. in.	139 sq. in.	-	-	-	-	-
30'	45 sq. in.	51 sq. in.	96 sq. in.	108 sq. in.	131 sq. in.	49 sq. in.	55 sq. in.	100 sq. in.	112 sq. in.	135 sq. in.

Note: The minimum chimney height from hearth to top of chimney is 15'.

Installing the Damper Clamp

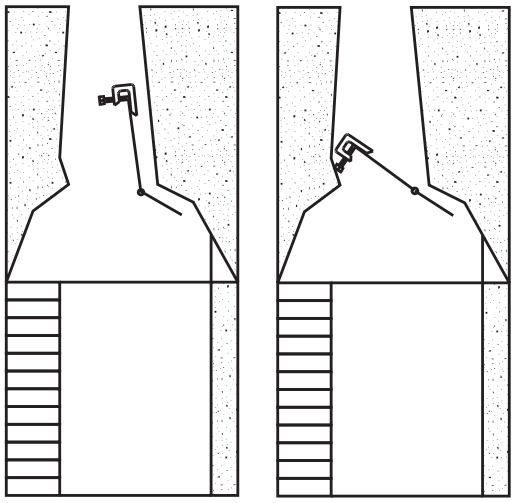
A damper clamp (See ***Parts List***) is provided as a means to prevent full and/or accidental closure of the fireplace damper when installed as illustrated (Fig. 6-2). **When the gas log set is operating, the damper must be fully open.** To install the damper clamp:

1. Open the fireplace damper.
2. Place the damper clamp (Fig. 6-1) over the damper blade as in Fig. 6-2.
3. Tighten the set screw of the damper clamp with pliers or a wrench so that it affixes to the damper blade. The clamp must be permanently installed.
4. Should the damper clamp not fit, install a permanent damper stop or provide some other means of preventing full and/or accidental closure of the damper such as removing the damper blade.



Damper clamp

Fig. 6-1



Open Closed

Fig. 6-2

Installing and Testing the Burner

1. Connect the gas flexible connector to the gas stub from the fireplace wall.
2. Place the assembled burner and grate into the center of the firebox.
3. Connect the other end of the gas flex connector to the burner.
4. Check for leaks.

CAUTION: CHECK ALL CONNECTIONS FOR GAS LEAKS USING A HALF-AND-HALF SOAPY WATER SOLUTION. IF A LEAK IS DETECTED TIGHTEN CONNECTIONS AND TEST AGAIN. **NEVER USE AN OPEN FLAME TO CHECK FOR GAS LEAKS.**

5. Place the heat shield over the valve.

Adjusting Air Mixers

Burners are equipped with air mixers for the upper (except 60") and front burners. Adjust the size and color of the flame by opening (turn outward) or closing (turn inward) as shown in Fig. 7-1 and Fig. 7-2.

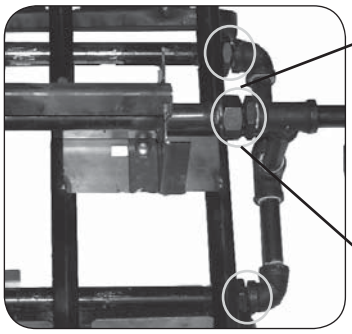


Fig. 7-1

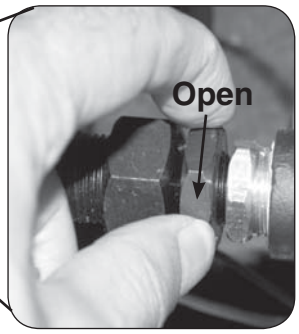


Fig. 7-2

Placing the Logs

CAUTION: Logs are heavy! Safely moving the front or back logs requires two or more people (see Fig. 8-2)

1. Place the front log on the grate in front of the burner pipe with the flat down and the heat chambers toward the burner pipe and the log as far forward as possible while keeping the back parallel with the burner pipe (Fig 8-2). Repeat for the second front log on the opposite side of the see-thru burner.
2. Place top logs across the front and back logs in the order and positions shown for your particular log set size on p. 8-9.

Placing the Decorative Lava Rock

Locate the bag of lava rock and pour its contents around the base of the grating in an attractive pattern. Do not place the Lava Rock on the logs or grate.

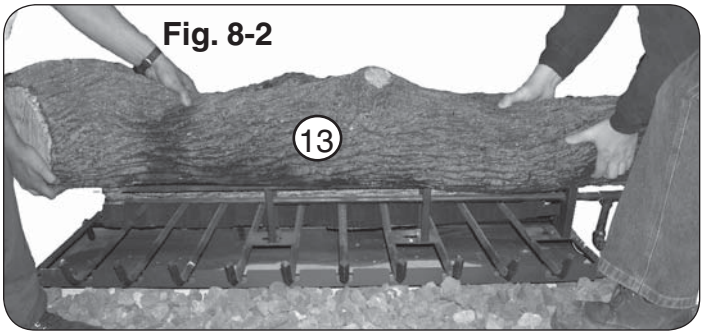
Log Placement

Note: Reference the Parts List on page 4 for Figures 8-1 thru 8-8.

Fig. 8-1

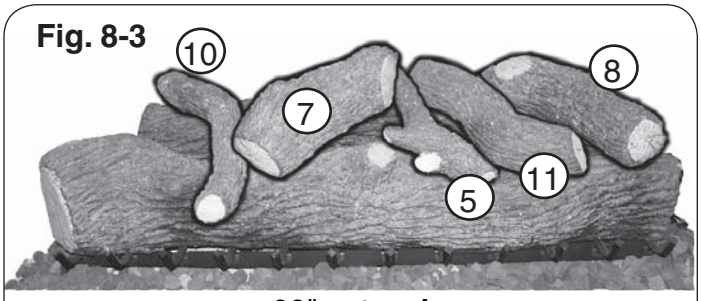
Place the burner system

Fig. 8-2



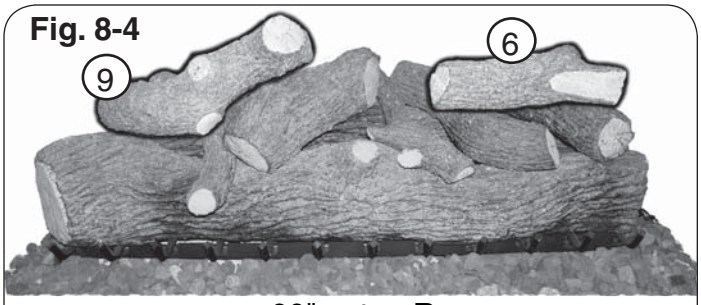
Place front bottom logs (requires at least two to lift)

Fig. 8-3



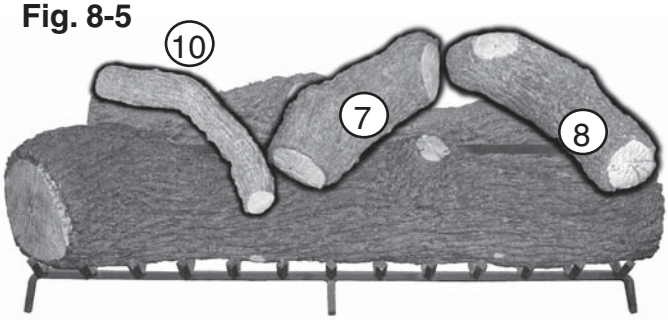
60" setup A

Fig. 8-4



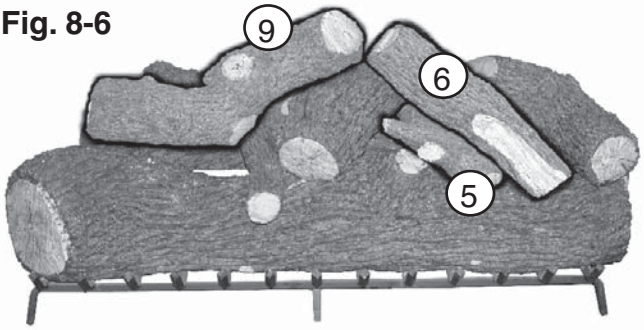
60" setup **B**

Fig. 8-5



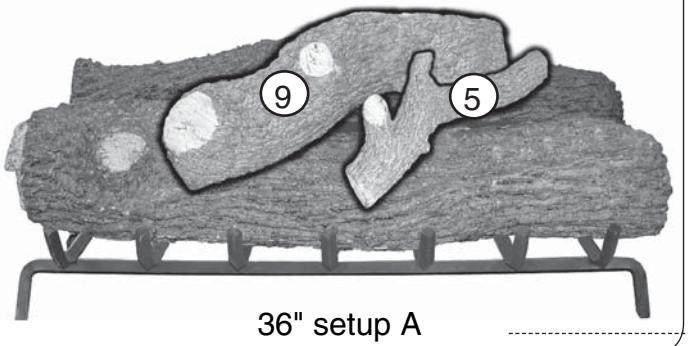
48" setup A

Fig. 8-6



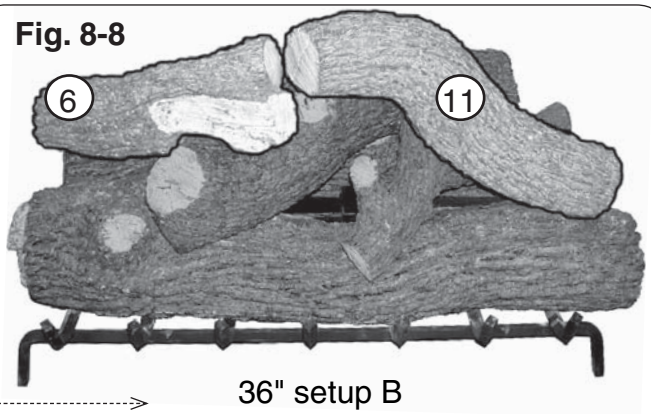
48" setup B

Fig. 8-7



36" setup A

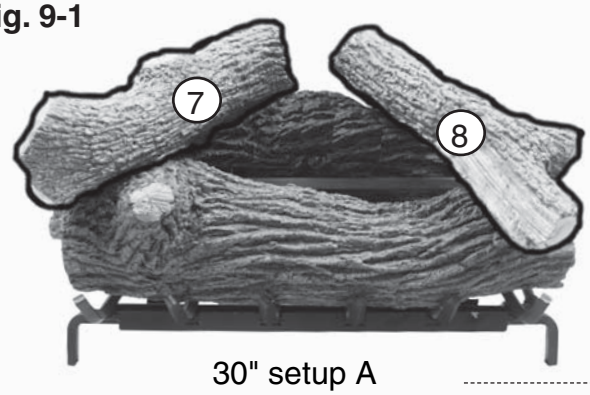
Fig. 8-8



36" setup B

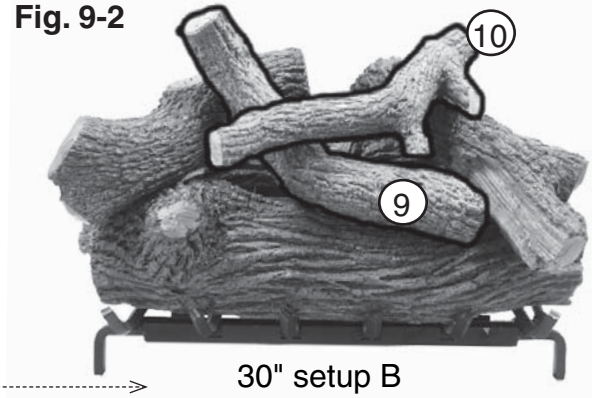
Note: Reference the Parts List on page 5 for Figures 9-1 thru 9-4.

Fig. 9-1



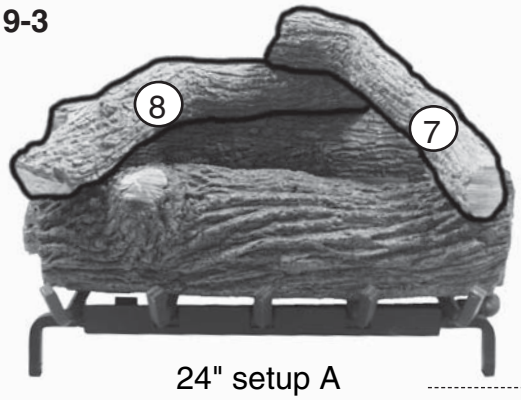
30" setup A

Fig. 9-2



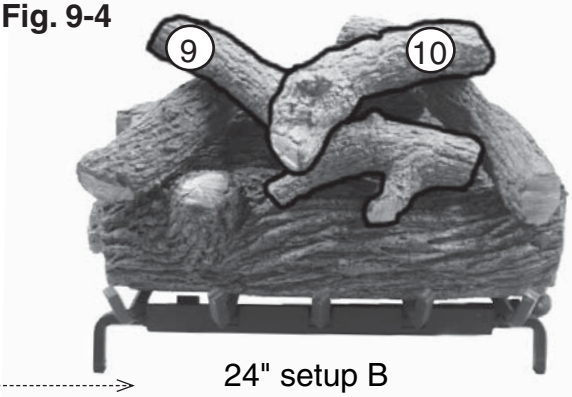
30" setup B

Fig. 9-3



24" setup A

Fig. 9-4



24" setup B

Lighting and Operating Instructions

FOR YOUR SAFETY, READ BEFORE LIGHTING

WARNING: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

Do not use this appliance if any part has been underwater. Immediately call for a qualified professional service technician to inspect the appliance and to replace any part of the burner system which has been under water.

BEFORE LIGHTING, smell all around the burner area for gas. IF YOU SMELL GAS, FOLLOW THE INSTRUCTIONS ON THE COVER (P. 1).

Lighting and Extinguishing the Burner System

1. Place a lighted long-stem match near the right end of the top burner (**do not hold the match in your hand)** or use a lighted long-necked butane lighter (Fig. 10-1).
2. Slowly turn the fireplace remote valve to the **ON** position. The log set should light.
3. If the log set does not light before the match goes out, immediately turn the valve to the **OFF** position.
4. Wait approximately five (5) minutes to clear out any gas, and repeat steps 1-3 above.
5. If the log set fails to light again, turn off the valve and contact the dealer or gas supplier.
6. To extinguish the Real-Fyre® gas log set, simply turn the valve to the **OFF** position. Be sure the valve is turned fully off to avoid any gas leakage.

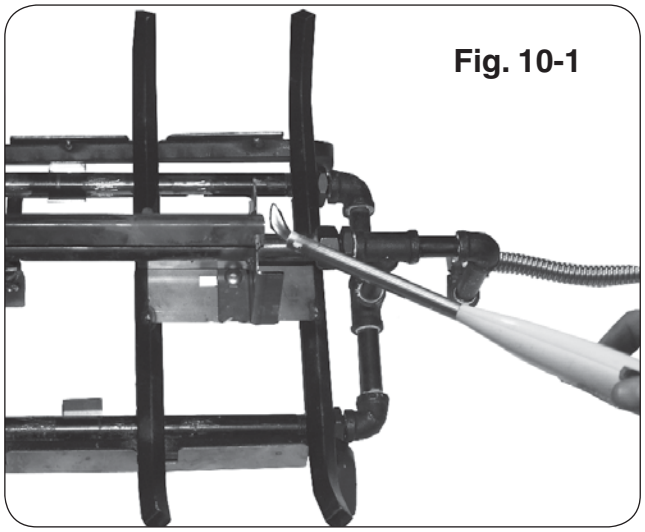


Fig. 10-1

Cleaning and Checking

A periodic check of the following should be performed at least annually by a qualified professional service representative.

1. Flue system for proper venting.
2. Damper operation
3. Orifices for dirt or other foreign matter.
4. Visual check on the burner.
5. Air mixers for dust/lint blockage.
6. Excessive soot on logs.

Maintenance and Service

Maintenance

Once installed and operating properly, the Real-Fyre® gas log set requires very little maintenance. You should inspect the log set and control annually for the following:

1. **Excessive Sooting -** Some sooting of the log set is normal and adds to the natural appearance of burned wood. If soot accumulates, you may brush the soot off with a stiff brush. Logs may also be cleaned by allowing them to heat up, then spraying them with water where soot has accumulated.
2. **Insects and burner blockage -** Check the burner ports and the air-mixer, if present, to make sure they are free from debris. Blocked burner ports and orifices may result in poor flame distribution or flame at air-mixer (if equipped).

Service

It is recommended that a qualified professional service technician be called to service the gas log set and control should service be required. The ***Troubleshooting*** section of these instructions serves as a guide for ensuring optimum performance of the gas log set.

Flame Appearance

The flames should be blue at the base and a combination of blue/yellow at the body and tips.

Troubleshooting

PROBLEM	CAUSE	SOLUTION
1. Log set Not burning properly	a. Low flame/uneven flame.	a. Check for low gas pressure; minimum operating pressures of 5" W.C. at manifold.
2. Excessive soot on logs	a. Yellow flame impingement	a. Open air shutter on front burner or main burner as needed.

WARRANTY

PETERSON VENTED GAS LOG SETS
LIMITED WARRANTY

All Peterson gas logs are **WARRANTED for as long as you own them (lifetime).**

All Peterson burner assemblies are **WARRANTED for TEN (10) YEARS.**

SPK-26 controls are covered by a **THREE (3) YEAR "All Parts" Warranty.**

All other Peterson valves, pilots, and controls are covered by a **ONE (1) YEAR Limited Warranty (excluding batteries).**

PLEASE KEEP A COPY OF YOUR SALES SLIP FOR PROOF OF PURCHASE

This warranty applies to the original purchaser and to single family residential use only. It commences from date of purchase, and is valid only with proof of purchase.

This warranty does not cover parts becoming defective through misuse, accidental damage, electrical damage, improper handling, storage, and/or installation. Product must be installed (and gas must be connected) as specified in the instructions or operator's manual, by a **qualified professional installer.** Accessories, parts, valves, remotes, etc., when used must be Peterson Co. product.

This warranty **does not** apply to rust, corrosion, oxidation, or discoloration, unless the affected component becomes inoperable. It **does not** cover labor or labor-related charges.

This warranty specifically excludes liability for **indirect, incidental,** or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion may not apply to you. This warranty gives you specified legal rights, and you may have other rights that may vary from state to state.

For additional information regarding this warranty, or to place a warranty claim, contact the R.H. Peterson dealer where the product was purchased.

ROBERT H. PETERSON CO.

Quality Check **Date:**_____

Orifice # (Main):_____

Orifice # (Other):_____ **Model #:** _____

Leak Test: _____ **Serial #:** _____

Burn Test: _____ **Air Shutter:** _____

Gas Type: **NAT. / PROPANE** **Inspector:** _____

Robert H. Peterson Co. • 14724 East Proctor Avenue • City of Industry, CA 91746